

CLAIMS

1. An inkjet ink comprising:
a self-dispersing pigment;
an amino-containing compound comprising no more than one primary
5 amino group or one secondary amino group; and
an aqueous vehicle.
2. The inkjet ink of claim 1, wherein the self-dispersing pigment is a surface
oxidized carbon black.
- 10 3. The inkjet ink of claim 2, wherein the self-dispersing carbon black has
been oxidized to form carboxylate functional groups on the surface of the carbon black.
4. The inkjet ink of claim 3, wherein the self-dispersing carbon black has an
acid number of about 0.5 to about 1.5 milliequivalents of COOH/gram of carbon black.
5. The inkjet ink of claim 1, wherein the amino-containing compound
15 comprises one primary amino group and at least one tertiary amino group.
6. The inkjet ink of claim 1, wherein the amino-containing compound has a
molecular weight of less than about 600.
7. The inkjet ink of claim 1, wherein the amino-containing compound
further comprises a ring containing 5 to 8 atoms.
- 20 8. The inkjet ink of claim 1, wherein the amino-containing compound
comprises one primary amino group and one tertiary amino group wherein the tertiary
amino group is part of a ring containing 5 to 8 atoms.
9. The inkjet ink of claim 1, wherein the amino-containing compound
comprises one secondary amino group wherein the secondary amino group is part of a
25 ring containing 5 to 8 atoms.
10. The inkjet ink of claim 1, further comprising a binder.

11. The inkjet ink of claim 1, further comprising a pigmented dispersion comprising a pigment and a polymeric dispersant.
12. The inkjet ink of claim 11, wherein the pigmented dispersion comprises carbon black pigment.
- 5 13. The inkjet ink of claim 1, further comprising
a pigmented dispersion comprising a pigment and a polymeric
dispersant; and
a binder.
14. The inkjet ink of claim 13, wherein the pigmented dispersion comprises
10 carbon black pigment.
15. An inkjet ink comprising:
a self-dispersing pigment associated with an amino-containing compound
wherein the amino-containing compound forms a stabilizing
layer; and
15 an aqueous vehicle.
16. The inkjet ink of claim 15, wherein the self-dispersing pigment is a surface oxidized carbon black.
17. The inkjet ink of claim 16, wherein the self-dispersing carbon black has been oxidized to form carboxylate functional groups on the surface of the carbon black.
- 20 18. The inkjet ink of claim 17, wherein the self-dispersing carbon black has an acid number of about 0.5 to about 1.5 milliequivalents of COOH/gram of carbon black.
19. The inkjet ink of claim 15, wherein the amino-containing compound comprises one primary amino group and at least one tertiary amino group.

20. The inkjet ink of claim 15, wherein the amino-containing compound has a molecular weight of less than about 600.

21. The inkjet ink of claim 15, wherein the amino-containing compound further comprises a ring containing 5 to 8 atoms.

5 22. The inkjet ink of claim 15, wherein the amino-containing compound comprises one primary amino group and one tertiary amino group wherein the tertiary amino group is part of a ring containing 5 to 8 atoms.

23. The inkjet ink of claim 15, wherein the amino-containing compound comprises one secondary amino group wherein the secondary amino group is part of a
10 ring containing 5 to 8 atoms.

24. The inkjet ink of claim 15, further comprising a binder.

25. The inkjet ink of claim 15, further comprising a pigmented dispersion comprising a pigment and a polymeric dispersant.

26. The inkjet ink of claim 25, wherein the pigmented dispersion comprises
15 carbon black pigment.

27. The inkjet ink of claim 15, further comprising
a pigmented dispersion comprising a pigment and a polymeric
dispersant; and
a binder.

20 28. The inkjet ink of claim 27, wherein the pigmented dispersion comprises carbon black pigment.

29. A method for producing a surface modified pigment comprising the steps of:

associating a self-dispersing pigment with an amino-containing compound
25 having no more than one primary amino group or one secondary amino group.

30. The method of claim 29, wherein the self-dispersing pigment comprises a carbon black that has been oxidized to form carboxylate functional groups on the surface of the carbon black.

31. The method of claim 30, wherein the self-dispersing carbon black has an acid number of about 0.5 to about 1.5 milliequivalents COOH/gram of carbon black.

32. The method of claim 29, wherein the amino-containing compound comprises one primary amino group and at least one tertiary amino group.

33. The method of claim 29, wherein the amino-containing compound has a molecular weight of less than about 600.

34. The method of claim 29, wherein the amino-containing compound further comprises a ring containing 5 to 8 atoms.

35. The method of claim 29, wherein the amino-containing compound comprises one primary amino group and one tertiary amino group wherein the tertiary amino group is part of a ring containing 5 to 8 atoms.

36. The method of claim 29, wherein the amino-containing compound comprises one secondary amino group wherein the secondary amino group is part of a ring containing 5 to 8 atoms.

37. A method for printing using an inkjet printer comprising printing an inkjet ink onto a printing medium wherein the ink comprises the ink in claim 1.

38. A method for printing using an inkjet printer comprising printing an inkjet ink onto a printing medium wherein the ink comprises the ink in claim 15.